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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568,349	05/11/2006	Bungo Hatta	Q93232	2701
SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			EXAMINER	
			NAKARANI, DHIRAJLAL S	
SUITE 800 WASHINGTON, DC 20037			ART UNIT	PAPER NUMBER
			1794	
			MAIL DATE	DELIVERY MODE
			02/06/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/568,349	HATTA ET AL.
Office Action Summary	Examiner	Art Unit
	D. S. Nakarani	1794
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (136(a). In no event, however, may a reply be ting will apply and will expire SIX (6) MONTHS from (e, cause the application to become ABANDONE)	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 11 N 2a) This action is FINAL . 2b) This 3) Since this application is in condition for alloware closed in accordance with the practice under N	s action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) Claim(s) <u>1-20</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) <u>1-20</u> are subject to restriction and/or	wn from consideration.	
··· <u> </u>		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and all accomposed and all accomposed and are specified to the Replacement drawing sheet(s) including the correct and the contract of the specified and the specified are specified to by the Example 2.	cepted or b) objected to by the liderawing(s) be held in abeyance. See tion is required if the drawing(s) is objected.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list.	ts have been received. ts have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate

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Art Unit: 1794

DETAILED ACTION

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-19, drawn to a method of reforming an interlayer, an interlayer film and a laminated glass.

Group II, claim(s) 20, drawn to a reformed heat-insulating fine particle.

- 2. The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Invention of Group I as claimed does not require a reformed heat-insulating fine particle of Group II. The invention of Group I only requires a heat-insulating fine particle covered with an inert substance.
- 3. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows: (A) one type of a heat insulating fine particle selected from the heat insulating particles recited in claim 15 and (B) one inert substance from the following species:

(a) ammonium phosphomolybdate (hydrate), (b) ammonium phosphovandate(hydrate), (c) ammonium phosphotungstate (hydrate), (d) ammonium

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phosphate (hydrate), (e) a hydroxyl apatite, (f) a carbonate apatite, (g) a fluoride apatite, (h) a tricalcium phosphate & an octacalcium phosphate, (i) an organosilane compound, (j) an organotitanium compound (k) an organoaluminum compound, (j) an organozirconium-aluminum compound, (l) a compound having an alcoholic hydroxyl group, (m) a compound having a phenolic hydroxyl group, (n) a compound having an isocyanate group, (o) carbon tetrachloride, (p) a quaternary-ammonium-salt compound, (q) a $Mo(\eta^3-C_3H_5)_4$ complex, (r) a $Cr(\eta^3-C_3H_5)_3$ complex, (s) a $Co_2(CO)_8$ cluster, (t) a $Ru_3(CO)_{12}$ cluster and (u) one of an amorphous (noncrstalline) metal oxide selected from metal oxides recited in claim 13.

If invention of Group I is elected, Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

4. The claims are deemed to correspond to the species listed above in the following manner:

Species: one from (a)-(d), claim 6; one from species: (e)-(h), claim 7; one from species: (i)-(j), claims 8 and 9; one from species: (l)-(n), claim 10; one from species: (o)-(t), claim 11; or one species from (u), claims 12-13.

The following claim(s) are generic: claims 1-5 and 16-19.

- 5. The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: The special technical feature of each species is the insulating inert substance coating. However claimed inert coating materials are all different types of materials. Thus, these species do not share a special technical feature.
- 6. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to D. S. Nakarani whose telephone number is (571) 272-

1512. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Rena Dye can be reached on (571) 272-3186. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/D. S. Nakarani/

Primary Examiner, Art Unit 1794

DSN

February 4, 2009.